WEST VIRGINIA WATERSHED PROGRESS REPORT

CRAIG M. RIGHT, STATE CONSERVATIONIST

U.S. DEPARTMENT OF AGRICULTURE

SOIL CONSERVATION SERVICE

MORGANTOWN, WEST VIRGINIA

JANUARY 1977

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Kanawh ilt a multiple-purpose
dam ar il Conservation Service.
The da n Blakes Creek, and the
lake p ties for county residents.

TOP PHOTO, BACK COVER

Recreation facilities also were developed around Site 14 on Brush Creek near Princeton. Another flood-prevention lake, this new body of water became the center of a new county park.

BOTTOM PHOTO, BACK COVER

Nearly all of the planned 24 floodwater-retarding dams planned for the South Fork Watershed in the Potomac Valley are completed. Like many of the others, the dam on Site 2 of that watershed is located in woodland, in an isolated area of the headwaters. Such dams hold back high water temporarily, releasing it gradually into stream channels.

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ALPHABETICAL LISTING

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STATUS LISTING

INDEX (continued)

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FOREWORD

Planning and construction activities, plus application of land treatment measures, were underway in 29 upstream watersheds. The Soil Conservation Service assisted local sponsors during 1976 in the following:

Field investigations and development of plans for 14 watersheds;

Supplementing plans for three authorized watersheds;

Making environmental assessments for three projects;

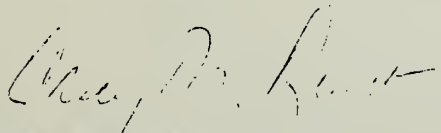
Five Flood Insurance Studies in cooperation with HUD were started; two were completed.

Washington authorized detailed planning for one watershed. Detailed plans for two watersheds were submitted to and approved by the Office of Management and Budget. One of the plans was submitted to the U.S. Congress for approval. During the year, Washington authorized one watershed project for installation. Eighteen watershed projects are presently being implemented.

For the fourth year, the State Legislature appropriated funds ($125,000) through the State Soil Conservation Committee to help finance the West Virginia Cooperative Watershed Planning Unit. The SCS is providing an estimated $38,500. In addition, the soil conservation districts, towns, cities, counties, and various agencies of State government have been a tremendous help in installing watershed projects by providing an estimated $4,315,000 during 1976.

Two watershed dams were completed during 1976. Construction contracts for two dams were awarded. At the end of the year, six dams were under construction with contracts totaling 3.8 million dollars.

The employment of a consulting firm during 1976 by the State Soil Conservation Committee to assist soil conservation districts with their responsibilities will go a long way in accelerating the installation of watershed projects. This will increase the efficiency of installing projects and make possible greater use of construction funds available to West Virginia.



Craig M. Right
State Conservationist

ANNUAL REPORT OF WATERSHED PLANNING AND OPERATIONS
USDA SOIL CONSERVATION SERVICE
MORGANTOWN, WEST VIRGINIA
DECEMBER 31, 1976

SUMMARY

	No.	Acres
Planning Workload:		
Ready for Planning Assistance	6	313,448
Watersheds Being Planned	8	606,185
Subtotal	14	919,633
Inactive:		
Not Feasible	10	456,254
Inadequate Sponsorship	16	708,606
Application Disapproved	2	104,900
Subtotal	28	1,269,760
Projects Approved for Operations	18	1,313,860
Projects Completed	12	104,850
Total Applications Received	72	3,608,103*

Number of Watershed Dams

Constructed	134
Under Construction	6
To Build	57
Total	197

*Involves 23 percent of the State and 42 counties.

WATERSHED DAMS IN APPROVED PROJECTS

STATUS AND NUMBER OF WATERSHED DAMS

DECEMBER 31, 1976

Map No.	Project	Completed	Under Constr.	Remaining to be Built	Total	
1.	Salem Fork	8	0	0	8	(1)
2.	Warm Springs Run	8	0	0	8	(1)
3.	New Creek-White's Run	9	0	3	12	
4.	South Fork	22	0	2	24	
5.	Patterson Creek	27	0	7	34	
6.	Lunice Creek	3	0	2	5	
7.	Upper Buffalo Creek	3	0	9	12	
8.	Upper Grave Creek	7	0	0	7	(1)
10.	Dave's Fork-Christian's Fork	3	0	0	3	(1)
13.	Saltlick Creek	5	0	0	5	(1)
15.	Spring Creek	1	0	0	1	
16.	Marlin Run	1	0	0	1	(1)
17.	Bond's Creek	1	0	0	1	(1)
18.	Brush Creek	10	0	0	10	
19.	Polk Creek	8	0	0	8	(1)
20.	Harmon Creek	6	0	0	6	(4)
21.	Wheeling Creek	1	3	0	4	(4)
24.	Upper Deckers Creek	7	0	0	7	(1)
25.	Peck's Run	0	0	0	0	(1)(3)
27.	Blakes Creek-Armour Creek	1	0	0	1	(1)
28.	Big Ditch Run	1	0	0	1	(2)
29.	Elk Twomile Creek	1	1	4	6	
30.	Kanawha Twomile Creek	0	0	4	4	
31.	Shook's Run	0	0	0	0	(1)(3)
38.	Dunloup Creek	0	0	0	0	(3)
41.	Pond Run	0	0	1	1	
44.	Mill Creek	1	0	6	7	
45.	South Branch	0	0	5	5	(4)
46.	Mate Creek	0	0	4	4	
49.	Prickett Creek	0	0	1	1	
50.	Lost River	0	0	5	5	
55.	North & South Mill Creek	0	2	4	6	
	Total	134	6	57	197	
	% of Total	68	3	29	100	

(1) Project Completed - 12 watersheds.
(2) Recreation Basic Facilities to be Installed.
(3) Channel Improvement Only.
(4) West Virginia Only.

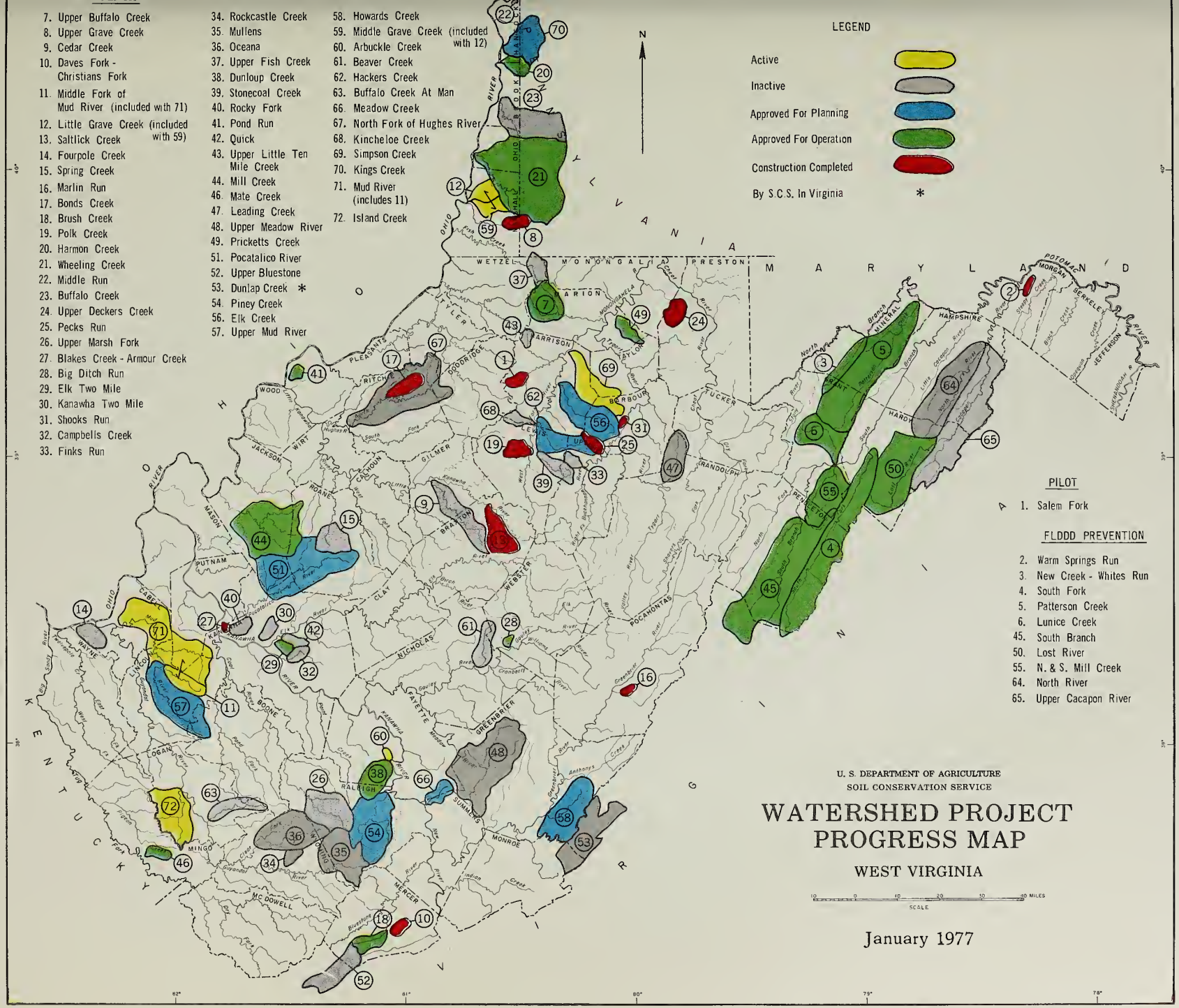
CHANNEL MODIFICATION IN APPROVED PROJECTS

STATUS - LINEAR FEET

DECEMBER 31, 1976

Map No.	Project	Completed	Under Constr.	Remaining to be Done	Total
1.	Salem Fork of Ten Mile Creek (Pilot)	10,500	-	-	10,500
5.	Patterson Creek	-	-	4,497	4,497
6.	Lunice Creek	-	-	3,210	3,210
7.	Upper Buffalo Creek	-	-	10,155	10,155
8.	Upper Grave Creek	19,000	-	-	19,000
10.	Dave's Fork-Christian's Fork	6,600	-	-	6,600
17.	Bond's Creek	30,300	-	-	30,300
18.	Brush Creek	7,585	-	23,337	30,922
21.	Wheeling Creek	-	-	200	200
24.	Upper Deckers Creek	35,300	-	-	35,300
25.	Peck's Run	27,000	-	-	27,000
28.	Big Ditch Run	19,300	-	-	19,300
31.	Shook's Run	3,800	-	-	3,800
38.	Dunloup Creek	-	-	19,820	19,820
41.	Pond Run	-	-	15,270	15,270
46.	Mate Creek	-	-	21,600	21,600
49.	Prickett Creek	-	-	7,030	7,030*
	Total (Lin. Ft.)	159,385	-	105,119	264,504
	(Miles)	30.2	-	19.9	50.1
	% of Total	60	-	40	100

* Includes: 5,070 L.F. Levee
1,360 L.F. Flood Wall


7. Upper Buffalo Creek
8. Upper Grave Creek
9. Cedar Creek
10. Daves Fork - Christians Fork
11. Middle Fork of Mud River (included with 71)
12. Little Grave Creek (included with 59)
13. Saltlick Creek
14. Fourpole Creek
15. Spring Creek
16. Marlin Run
17. Bonds Creek
18. Brush Creek
19. Polk Creek
20. Harmon Creek
21. Wheeling Creek
22. Middle Run
23. Buffalo Creek
24. Upper Deckers Creek
25. Pecks Run
26. Upper Marsh Fork
27. Blakes Creek - Armour Creek
28. Big Ditch Run
29. Elk Two Mile
30. Kanawha Two Mile
31. Shooks Run
32. Campbells Creek
33. Finks Run
34. Rockcastle Creek
35. Mullens
36. Oceana
37. Upper Fish Creek
38. Dunloup Creek
39. Stonecoal Creek
40. Rocky Fork
41. Pond Run
42. Quick
43. Upper Little Ten Mile Creek
44. Mill Creek
46. Mate Creek
47. Leading Creek
48. Upper Meadow River
49. Pricketts Creek
51. Pocatalico River
52. Upper Bluestone
53. Dunlap Creek *
54. Piney Creek
56. Elk Creek
57. Upper Mud River
58. Howards Creek
59. Middle Grave Creek (included with 12)
60. Arbuckle Creek
61. Beaver Creek
62. Hackers Creek
63. Buffalo Creek At Man
66. Meadow Creek
67. North Fork of Hughes River
68. Kincheloe Creek
69. Simpson Creek
70. Kings Creek
71. Mud River (includes 11)
72. Island Creek
LEGEND
Active
Inactive
Approved For Planning
Approved For Operation
Construction Completed
By S.C.S. In Virginia *
PILOT
1. Salem Fork
FLOOD PREVENTION
2. Warm Springs Run
3. New Creek - Whites Run
4. South Fork
5. Patterson Creek
6. Lunice Creek
45. South Branch
50. Lost River
55. N. & S. Mill Creek
64. North River
65. Upper Cacapon River
U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
WATERSHED PROJECT PROGRESS MAP
WEST VIRGINIA
SCALE
January 1977
USDA-SCS HYATTSVILLE, MD. 1977

PLANNING WORKLOAD

Ready for Planning Assistance:

Map No. 12 LITTLE GRAVE CREEK

Location:	Marshall County
Size:	7,556 acres
Application Received:	November 1956
Sponsors:	Northern Panhandle Soil Conservation District P. O. Box 574 Moundsville, West Virginia 26041
Problems:	Frequent flooding of a rapidly urbanizing area.
Status:	After the 1976 flood, additional field work was done. At the request of sponsors, this watershed will be included in the Field Investigation Report being prepared for the Middle Grave Creek Watershed.

Map No. 59 MIDDLE GRAVE CREEK

Location:	Marshall County
Size:	18,870 acres
Application Received:	February 9, 1970
Sponsors:	Northern Panhandle Soil Conservation District P. O. Box 574 Moundsville, West Virginia 26041 Marshall County Commission Moundsville, West Virginia 26041
Problems:	Serious floodwater damage to urban areas, roads, bridges, and utilities. The city of Moundsville is involved.

MIDDLE GRAVE CREEK (continued)

Status: Preliminary investigation was completed and found to be economically feasible with a benefit-cost ratio of 1.2:1. A program could be developed including land treatment, one single-purpose retarding dam, one multiple-purpose retarding dam with water-oriented recreation, 3,000 linear feet of dike and cleanout of channel at one bridge location. Flash flood of 1975 Labor Day weekend renewed local interest in a project. Meetings were held with local people. Additional field data were gathered after the 1976 flood and the Field Investigation Report is being updated.

Map No. 60 ARBUCKLE CREEK

Location: Fayette County

Size: 5,612 acres

Application Received: February 9, 1970

Sponsors: Southern Soil Conservation District
P. O. Box 785
Skelton, West Virginia 25919

Fayette County Commission
Fayetteville, West Virginia 25840

City of Oak Hill
Oak Hill, West Virginia 25901

Problems: Frequent flooding in the city of Oak Hill, West Virginia.

Status: Application approved by State Soil Conservation Committee April 14, 1970. A one-day field check was made May 6, 1975. Feasibility is questionable, but maps of city and coal mining activities are needed.

Map No. 69 SIMPSON CREEK

Location:	Barbour, Harrison, and Taylor Counties
Size:	46,550 acres
Application Received:	December 15, 1971
Sponsors:	West Fork Soil Conservation District 109 North Third Street Lowndes Bank Building Clarksburg, West Virginia 26301 Tygarts Valley Soil Conservation District Bennett Building Philippi, West Virginia 26416 City of Bridgeport Bridgeport, West Virginia 26330 Barbour County Commission Philippi, West Virginia 26416 Harrison County Commission Clarksburg, West Virginia 26301 Taylor County Commission Grafton, West Virginia 26354 Town of Flemington Flemington, West Virginia 26347
Problems:	Flooding occurs annually to Bridgeport and other rural communities. This includes roads, parking lots, and schools. There are extensive areas of strip mine spoil needing revegetation. Water quality is poor. Water-based recreation is also needed.
Status:	Preliminary investigation completed under Appalachian Water Resources Survey and found to be a feasible project. Local interest is good.

Map No. 71 MUD RIVER

Location:	Boone, Cabell, Kanawha, Lincoln, and Putnam Counties
Size:	167,260 acres
Application Received:	August 28, 1972
Sponsors:	Guyan Soil Conservation District P. O. Box 27 Huntington, West Virginia 25706 Town of Milton Box 398 Milton, West Virginia 25541 Village of Barboursville Barboursville, West Virginia 25504 Putnam County Commission Winfield, West Virginia 25213 Lincoln County Commission Hamlin, West Virginia 25523 Cabell County Commission Huntington, West Virginia 25701 Western Soil Conservation District P. O. Box 234 Point Pleasant, West Virginia 25550
Problems:	Flooding of agricultural lands, houses, highways, businesses, and schools in Milton, Barboursville, Griffithsville, Hamlin, and other communities. Erosion and heavy sedimentation lowers water quality. An additional water supply for Milton is needed. Water-based recreation is also a need.
Status:	Application approved by State Soil Conservation Committee October 2, 1972. Application was modified to exclude Upper Mud River, 61,860 acres covered under previous application. Field work continues to determine feasibility. Indications are that it may be possible to formulate a feasible project.

Map No. 72 ISLAND CREEK

Location:	Logan County
Size:	67,600 acres
Application Received:	March 9, 1973
Sponsors:	Guyan Soil Conservation District P. O. Box 27 Huntington, West Virginia 25706 Logan County Commission Logan, West Virginia 25601
Problems:	Flooding of residential and commercial properties in the urban areas is a frequent occurrence. Flooding frequency has increased in the last few years mainly due to poor land use and treatment practices. Urban developments have increased runoff and restricted flow in the narrow flood plains. Strip mining and heavy and poor logging practices in the upland areas have also had detrimental effect on flooding levels.
Status:	Application approved by State Soil Conservation Committee April 2, 1973. A quick one-day field review of the watershed indicates serious question of feasibility under Public Law 83-566 present criteria. No work was done during the year.

Watersheds Being Planned:

Map No. 51 POCATALICO RIVER

Location:	Jackson, Kanawha, Putnam, and Roane Counties
Size:	231,000 acres
Application Received:	December 22, 1967
Planning Authorized:	October 15, 1971

POCATALICO RIVER (continued)

Sponsors:

Western Soil Conservation District
P. O. Box 234
Point Pleasant, West Virginia 25550

Little Kanawha Soil Conservation District
P. O. Box 173
Elizabeth, West Virginia 26143

Sissonville Public Service District
Box 90
Sissonville, West Virginia 25185

Walton Public Service District
Walton, West Virginia 25286

West Virginia Department of Natural Resources
1800 Washington Street, East
Charleston, West Virginia 25305

Problems:

Flooding damage to residential areas, transportation facilities, businesses, and agricultural land. In 1967, average annual damages were estimated to be $97,700. Adequate and quality water supply is urgently needed for the communities of Sissonville and Walton. There is also a need for water-based recreation.

Status:

Joint planning continued with the Huntington District, U.S. Army Corps of Engineers. The work is being carried out in accordance with Public Law 87-639, and a resolution adopted May 3, 1971, by the Committee on Public Works, United States Senate. However, the COE has completed their participation in the planning. The SCS will complete their planning efforts to formulate a program of upstream structural and land treatment measures during 1977. The Interim Report, approved and funded in 1975 to provide water supply for Sissonville and Walton, is being implemented. Necessary landrights for multiple-purpose dams at sites 14 and 28 are being secured.

Map No. 54 PINEY CREEK

Location:	Raleigh County
Size:	87,810 acres
Application Received:	September 9, 1968
Planning Authorized:	August 26, 1974
Sponsors:	Southern Soil Conservation District P. O. Box 785 Skelton, West Virginia 25919 Raleigh County Commission Beckley, West Virginia 25801
Problems:	Flooding damages to 337 homes, 45 businesses, 4.7 miles of roads, and 49 road and 2 railroad bridges. Revegetation of about 2,100 acres of strip mine area is needed. Public water supply is needed for Grandview area. Water-oriented public recreation facilities are also needed.
Status:	Planning priority No. 2 has been set by the State Soil Conservation Committee for the West Virginia Cooperative Watershed Planning Party. Planning for Soak Creek, a major tributary, is about 70 percent completed with all reviews and coordination to be completed by February 1978.

Map No. 56 ELK CREEK

Location:	Barbour, Harrison, and Upshur Counties
Size:	77,860 acres
Application Received:	March 26, 1969
Planning Authorized:	December 9, 1969
Sponsors:	West Fork Soil Conservation District 109 North Third Street Lowndes Bank Building Clarksburg, West Virginia 26301

ELK CREEK (continued)

Sponsors:	Tygarts Valley Soil Conservation District Bennett Building Philippi, West Virginia 26416 Harrison County Commission Clarksburg, West Virginia 26301 City of Stonewood Stonewood, West Virginia 26301 Town of Anmoore Anmoore, West Virginia 26323 Town of Nutter Fort Nutter Fort, West Virginia 26301 City of Clarksburg Clarksburg, West Virginia 26301
Problems:	Floodwater damage to commercial facilities, residential areas, transportation facilities, and agricultural lands. Sedimentation from over 8,400 acres of strip mine areas is a serious problem. Pollution from acid mine drainage is another problem. There is a need for water-based recreation.
Status:	The Work Plan and Environmental Impact Statement were forwarded by the Office of Management and Budget to the U.S. Congress for review and approval. However, it was necessary to ask the Congressional Committees to hold up review pending the required coordination with the U.S. Army Corps of Engineers, who are conducting a Flood Insurance Study for HUD to resolve hydraulic differences in downstream reaches. These differences have been resolved, and the effects on the project as presently formulated will be discussed with sponsors and the needed amendment to the plan prepared and forwarded to the Congress.

Map No. 57 UPPER MUD RIVER

Location:	Lincoln and Boone Counties
Size:	61,600 acres
Application Received:	October 7, 1969
Planning Authorized:	January 29, 1975
Sponsors:	Guyan Soil Conservation District P. O. Box 27 Huntington, West Virginia 25706 Boone County Commission Madison, West Virginia 25130 Lincoln County Commission Hamlin, West Virginia 25523
Problems:	Frequent flooding and sediment damage to the town of Hamlin, agricultural lands, roads and bridges, utilities, and lack of developed water-based recreational facilities.
Status:	Preliminary investigation completed July 1971. Project feasible. Local interest remains high. Sponsors have organized a Watershed Association. People of Lincoln County, in February 1974, passed a special 3-year tax levy to raise an estimated $500,000 for the watershed. A Preliminary Investigation Report was completed and presented to the Public at a meeting October 21, 1976. Sponsors are selecting a final plan. Overall planning is 75 percent completed with completion estimated to be December 1977. During 1976 a detail geologic investigation was completed for the multiple-purpose site

Map No. 58 HOWARDS CREEK

Location:	Greenbrier County
Size:	58,240 acres
Application Received:	May 22, 1970
Planning Authorized:	July 27, 1970
Sponsors:	Greenbrier Valley Soil Conservation District 117 Washington Street Lewisburg, West Virginia 24901 Greenbrier County Commission Lewisburg, West Virginia 24901
Problems:	Floodwater damage to 840 acres of flood plain, affecting nearly 400 houses, businesses, golf courses, roads and bridges. The town of White Sulphur Springs and community of Caldwell are involved.
Status:	Preliminary investigation made during the Kanawha River Basin Type II Study. Geologic investigation of two dam sites was completed. A Preliminary Investigation Report was completed and presented to the public at a meeting September 8, 1976. The meeting indicated that in spite of a widespread informational program in the newspapers and radio, the general public lacked adequate knowledge of the program. Five additional public meetings are scheduled in an effort to better inform the public. Estimated completion of the planning is scheduled for February 1978.

Map No. 62 HACKERS CREEK

Location:	Harrison, Lewis, and Upshur Counties
Size:	36,730 acres

HACKERS CREEK (continued)

Application Received:	June 25, 1970
Planning Authorized:	September 26, 1973
Sponsors:	West Fork Soil Conservation District 109 North Third Street Lowndes Bank Building Clarksburg, West Virginia 26301 Tygarts Valley Soil Conservation District Bennett Building Philippi, West Virginia 26416 Upshur County Commission Buckhannon, West Virginia 26201 Lewis County Commission Weston, West Virginia 26452 Harrison County Commission Clarksburg, West Virginia 26301 Municipality of Jane Lew Jane Lew, West Virginia 26378 City of Clarksburg Clarksburg, West Virginia 26301
Problems:	Flooding and sediment damage to Jane Lew, including lawns, gardens, roads, septic tank fields, water system, and to crops and pasture. Additional public water supply and water-oriented recreational facilities are needed.
Status:	The Final Plan and Environmental Impact Statement is being signed by Sponsors prior to being sent to Washington for approval and forwarding to the Office of Management and Budget. It is hoped that Congressional approval can be secured during 1977.

Map No. 66 MEADOW CREEK

Location:	Fayette and Summers Counties
Size:	18,140 acres
Application Received:	December 10, 1970
Planning Authorized:	January 24, 1972
Sponsors:	Southern Soil Conservation District P. O. Box 785 Skelton, West Virginia 25919 Fayette County Commission Fayetteville, West Virginia 25840 Summers County Commission Hinton, West Virginia 25951 Town Council Meadow Bridge, West Virginia 25976
Problems:	Frequent flooding damages to town of Meadow Bridge, crop and pasture land, and transportation facilities. A public water supply is needed.
Status:	Preliminary investigation made during Kanawha River Basin Type II Study. Planning was authorized January 24, 1972, and overall is about 65 percent completed. A detailed geologic investigation of the multiple-purpose floodwater-retarding water supply dam site was made during 1976. The Preliminary Investigation Report was prepared and presented to the public at a meeting December 6, 1976. Sponsors and local interest remains high.

Map No. 70 KINGS CREEK

Location:	Hancock County, West Virginia and Beaver and Washington Counties, Pennsylvania
Size:	34,805 acres

KINGS CREEK (continued)

Application Received:	June 14, 1972
Planning Authorized:	May 6, 1976
Sponsors:	Northern Panhandle Soil Conservation District P. O. Box 574 Moundsville, West Virginia 26041 Washington County Soil Conservation District 37 Highland Avenue Washington, Pennsylvania 15301 Beaver County Soil Conservation District P. O. Box 40 Beaver, Pennsylvania 15009 City of Weirton Weirton, West Virginia 26062 Hancock County Commission New Cumberland, West Virginia 26047 County of Washington Washington, Pennsylvania 15301 County of Beaver Beaver, Pennsylvania 15009 Hanover Township Board of Supervisors Hanover Township, Pennsylvania 17331
Problems:	Flooding damages to houses, garages, businesses, churches, trailers, roads, bridges and other improvements. There is a need for public water supply in upper part of the watershed. There is also an erosion and sediment problem.
Status:	Preliminary investigation completed under Appalachian Water Resources Survey and found to be a feasible project. The Watershed Investigation Report was updated, a high planning

KINGS CREEK (continued)

Status:	priority set by the State Soil Conservation Committee, and the watershed was authorized for detailed planning. Two public meetings were held to review the Field Investigation Report and secure public input. Planning is continuing.

INACTIVE

Not Feasible:

Map No. 11 MIDDLE FORK OF MUD RIVER

Location:	Lincoln County
Size:	33,500
Application Received:	June 19, 1956
Sponsors:	Guyan Soil Conservation District P. O. Box 27 Huntington, West Virginia 25706
Problems:	Flooding damage to about 1,500 acres has occurred at least 100 times in the past 25 years. This includes crop and pasture land, residential areas, and public utilities.
Status:	Application withdrawn and included with Mud River.

Map No. 26 UPPER MARSH CREEK

Location:	Raleigh County
Size:	29,248 acres
Application Received:	September 11, 1961
Sponsors:	Southern Soil Conservation District P. O. Box 785 Skelton, West Virginia 25919
Problems:	Frequent flooding of 400 acres of flood plain, including 92 homes, other buildings, 110 lots, several miles of roads, and numerous bridges.
Status:	A preliminary investigation and report made May 1962 showed average annual costs of works of improvement would be an estimated $44,423, with average annual estimated benefits of only $22,000. Due to renewed interest, a field check of watershed was made March 1973 with results feasibility still questionable.

Map No. 32 CAMPBELL'S CREEK

Location:	Kanawha County
Size:	26,000 acres
Application Received:	August 9, 1963
Sponsors:	Capitol Soil Conservation District 1422 Federal Building 500 Quarrier Street Charleston, West Virginia 25301
Problems:	Floodwater damage to highly urbanized area, including residences, businesses, utilities, roads and bridges, and railroads.
Status:	Field review and report May 1964, indicates that a project for flood prevention alone is not economically feasible.

Map No. 33 FINK'S RUN

Location:	Upshur County
Size:	10,350 acres
Application Received:	October 1, 1963
Sponsors:	Tygarts Valley Soil Conservation District Bennett Building Philippi, West Virginia 26416
Problems:	Flooding damage to 228 acres once every four years, including agricultural land, residences, businesses, and transportation routes.
Status:	Preliminary investigation and report made January 1968, indicates not feasible. During the Monongahela River Basin Type IV Study, this watershed was included with two others and restudied. The combined watersheds were still feasible. In 1976 met with officials of city of Buckhannon to discuss use of a retarding dam site to include storage for water supply.

Map No. 40 ROCKY FORK

Location:	Putnam and Kanawha Counties
Size:	12,180 acres
Application Received:	October 8, 1965
Sponsors:	Capitol Soil Conservation District 1422 Federal Building 500 Quarrier Street Charleston, West Virginia 25301 Kanawha County Commission Charleston, West Virginia 25301
Problems:	Frequent flooding damages to residential areas, businesses, and state roads and bridges.
Status:	Preliminary investigation and report made January 1967, showed project not feasible. Velocities in channel improvement would require paving or riprapping.

Map No. 61 BEAVER CREEK

Location:	Nicholas and Webster Counties
Size:	24,860 acres
Application Received:	May 8, 1970
Sponsors:	Elk Soil Conservation District Sutton, West Virginia 26601 Nicholas County Commission Summersville, West Virginia 26651
Problems:	Frequent flooding and sediment damage to transportation facilities, agricultural lands, businesses, and residential properties. Severe erosion of several hundred acres of strip mine spoil has resulted in serious siltation of main channel. Over 1,200 acres of agricultural land needs drainage.

BEAVER CREEK (continued)

Status:	Preliminary investigation made during Kanawha River Basin Type II Study. A 2-day field check of the watershed in March 1973 showed that renewed coal mining activities along with environmental concern for needed channel modifications raised some serious problems. Sponsors, on November 25, 1974, agreed to withdrawing of planning priority. During 1976 we continued to provide consultive-type assistance to secure temporary and emergency relief through other programs.

Map No. 63 BUFFALO CREEK AT MAN

Location:	Logan County
Size:	29,520 acres
Application Received:	June 17, 1970
Sponsors:	Guyan Soil Conservation District P. O. Box 27 Huntington, West Virginia 25706 Town of Man Man, West Virginia 25635 Logan County Commission Logan, West Virginia 25601
Problems:	Frequent flooding of residences, businesses, and roads in Man and along Buffalo Creek, caused by siltation of channel from slag piles and strip mine areas. In November 1972, planning got underway to develop a plan to provide flood protection to the planned new redevelopment of the valley after the disaster of February 26, 1972.

BUFFALO CREEK AT MAN (continued)

Status:	A Preliminary Land Stabilization and Flooding Investigation Report was completed in June 1974 and distributed. A very tentative cost estimate for stabilizing 28 coal refuse piles, 1,620 acres of surface mine area, 100 miles of access roads, and installing 10.5 miles of concrete line channel is $125,000,000. Project not feasible under PL-566.

Map No. 64 NORTH RIVER

Location:	Hampshire and Hardy Counties
Size:	131,136 acres
Application Received:	July 7, 1970
Sponsors:	Potomac Valley Soil Conservation District P. O. Box 548 Romney, West Virginia 26757
Problems:	Floodwater damage to agricultural lands, rural homes and buildings, roads and bridges.
Status:	Preliminary investigation is about 70 percent completed. It appears questionable that a feasible project can be formulated. Some alternatives are being investigated.

Map No. 65 UPPER CACAPON RIVER

Location:	Hardy and Hampshire Counties
Size:	147,960 acres
Application Received:	November 1969
Sponsors:	Potomac Valley Soil Conservation District P. O. Box 548 Romney, West Virginia 26757

UPPER CACAPON RIVER (continued)

Problems:	Floodwater damage to camps, cottages, roads, bridges, residential areas, businesses, and crop and pasture land. Sediment damage in the watershed is estimated to be almost $202,000 annually.
Status:	Preliminary investigation and report dated August 1970 shows average annual floodwater reduction benefits of $343,500, compared to estimated average annual cost of structural measures of $735,800.

Map No. 68 KINCHELOE CREEK

Location:	Harrison and Lewis Counties
Size:	11,500 acres
Application Received:	February 19, 1971
Sponsors:	West Fork Soil Conservation District 109 North Third Street Lowndes Bank Building Clarksburg, West Virginia 26301 Harrison County Commission Clarksburg, West Virginia 26301 Lewis County Commission Weston, West Virginia 26452
Problems:	Flooding damage to rural and agricultural areas.
Status:	Preliminary investigation and report made under the Monongahela River Basin Type IV Study. Not feasible under PL-566.

Inadequate Sponsorship:

Map No. 9 CEDAR CREEK

Location:	Gilmer County
Size:	39,196 acres
Application Received:	November 10, 1954
Sponsors:	West Fork Soil Conservation District 109 North Third Street Lowndes Bank Building Clarksburg, West Virginia 26301 West Virginia Department of Natural Resources Charleston, West Virginia 25301
Status:	Planning terminated in February 1959, due to lack of adequate sponsorship. During 1974, some thought given to the possibility of an RC&D project.

Map No. 14 FOUR POLE CREEK

Location:	Cabell County
Size:	9,364 acres
Application Received:	February 27, 1957
Sponsors:	Guyan Soil Conservation District P. O. Box 27 Huntington, West Virginia 25706
Problems:	Floodwater damage principally to residential properties in the City of Huntington, and to rural improvements in the outer area. Estimated average annual floodwater damage is $54,669. With continued rapid urbanization of the watershed, these damages can be expected to greatly increase.

FOUR POLE CREEK (continued)

Status:	A work plan was essentially completed March 1966. Due to local controversy, sponsors would not commit financial support. At the request of sponsors, a field check was made in March 1973 to check possibilities of extending channel both upstream and downstream of present State road concrete-lined channel. City of Huntington continues to occasionally express interest in going ahead with a project.

Map No. 15 SPRING CREEK

Location:	Roane County
Size:	29,000 acres
Application Received:	April 15, 1957
Sponsors:	Little Kanawha Soil Conservation District P. O. Box 173 Elizabeth, West Virginia 26143
Problems:	Frequent flooding of agricultural land, roads, bridges, and utilities.
Status:	Sponsors unable to finance local costs for a PL-566 project. Construction of a multiple-purpose site on Charles Fork to provide flood protection and adequate water supply for Spencer, West Virginia, financed through the Economic Development Agency, was completed.

Map No. 30 KANAWHA TWOMILE CREEK

Location:	Kanawha County
Size:	15,372 acres
Application Received:	November 8, 1962
Planning Authorized:	January 10, 1966

KANAWHA TWOMILE CREEK (continued)

Sponsors:	Capitol Soil Conservation District 1422 Federal Building 500 Quarrier Street Charleston, West Virginia 25301 Kanawha County Commission Charleston, West Virginia 25301 Regional Development Authority of Charleston, Kanawha County Charleston, West Virginia 25301
Problems:	Floodwater damage to residential and commercial establishments, and roads and bridges, plus water-based recreation. In 1967, estimated average annual floodwater damages totaled $19,833. Project will reduce these damages about 82 percent.
Land Treatment:	Land treatment measures planned for 3,170 acres. To date, 2,272 acres, or about 72 percent, have been applied.
Structural Measures:	Three single-purpose floodwater retarding dams and one multiple-purpose dam with recreational basic facilities are planned. Due to large developments in the watershed, a field review was made November 1973 to determine feasibility of project. Project is still feasible. The Capitol Soil Conservation District in a letter dated January 13, 1975, along with the Kanawha County Commission requested that the Project be placed for the time being in inactive status. It was placed in inactive status effective February 15, 1975.

Map No. 34 ROCKCASTLE CREEK

Location:	Wyoming County
Size:	10,500 acres
Application Received:	October 14, 1963
Sponsors:	Southern Soil Conservation District P. O. Box 785 Skelton, West Virginia 25919 Wyoming County Commission Pineville, West Virginia 24874 Wyoming County Planning Commission Pineville, West Virginia 24874
Problems:	Frequent flooding damages. The 1963 flood damaged 75 homes, 15 places of business, roads and bridges, and utilities in Pineville. Flooding occurred during 1974.
Status:	Project is feasible. County-wide bond issue to finance local costs voted down in 1970. Financial support needed from County Commission.

Map No. 35 MULLENS (Upper Guyandotte River)

Location:	Wyoming and Raleigh Counties
Size:	60,710 acres
Application Received:	December 20, 1963
Sponsors:	Southern Soil Conservation District P. O. Box 785 Skelton, West Virginia 25919 Wyoming County Commission Pineville, West Virginia 24874
Problems:	Frequent flooding damages. The 1963 flood damaged 166 homes, 71 places of business, roads and bridges, lawns, gardens, and utilities. Flooding occurred in 1974.

MULLENS (Upper Guyandotte River)(continued)

Status:	Project is feasible. County-wide bond issue to finance local costs voted down in 1970. Financial support needed from County Commission.

Map No. 36 OCEANA (Clearfork River)

Location:	Wyoming and Raleigh Counties
Size:	67,630 acres
Application Received:	December 20, 1963
Sponsors:	Southern Soil Conservation District P. O. Box 785 Skelton, West Virginia 25919 Wyoming County Commission Pineville, West Virginia 24874
Problems:	Frequent flooding damages. The 1963 flood damages 164 homes, 22 places of business, roads and bridges, 3 public schools, utilities, and lawns and gardens.
Status:	Project is feasible. County-wide bond issue to finance local costs voted down in 1970. Flood data provided the Appalachian Power Company in June 1974.

Map No. 37 UPPER FISHING CREEK

Location:	Wetzel County, West Virginia and Greene County, Pennsylvania
Size:	11,725 acres
Application Received:	May 13, 1964
Sponsors:	Upper Ohio Soil Conservation District P. O. Box 125 Middlebourne, West Virginia 26149

UPPER FISHING CREEK (continued)

Problems:	Serious flooding throughout the watershed, with damage center city of Hundred. Need for public water supply and water-oriented recreation.
Status:	Project feasible November 1965. One-day field check made November 5, 1976. At present, formulation of a feasible project questionable due to majority of flood damage reduction benefits pre-empted by earlier Corps of Engineers project.

Map No. 39 STONECOAL CREEK

Location:	Lewis and Upshur Counties
Size:	25,490 acres
Application Received:	July 6, 1965
Sponsors:	West Fork Soil Conservation District 109 North Third Street Lowndes Bank Building Clarksburg, West Virginia 26301 Tygarts Valley Soil Conservation District Bennett Building Philippi, West Virginia 26416 Lewis County Commission Weston, West Virginia 26452
Problems:	Flooding damages principally to city of Weston, including residences, businesses, city property, schools, and churches.
Status:	Monongahela Power Company has purchased the one site and constructed a multiple-purpose dam. Floodwater storage has been included. Power company needed to include storage of over 25,000 acre-feet for their own purpose, making it ineligible under PL-566.

Map No. 42 QUICK (Slack's Branch)

Location:	Kanawha County
Size:	5,058 acres
Application Received:	January 11, 1966
Sponsors:	Capitol Soil Conservation District 1422 Federal Building 500 Quarrier Street Charleston, West Virginia 25301 Kanawha County Commission Charleston, West Virginia 25301
Problems:	Frequent flooding damage to homes, businesses, streets, bridges, and utilities. Revegetation of strip-mine spoil.
Status:	Project feasible November 1966. Preliminary investigation made during Kanawha River Basin Type II Study.

Map No. 43 UPPER LITTLE TEN MILE CREEK

Location:	Harrison County
Size:	9,800 acres
Application Received:	June 28, 1966
Sponsors:	West Fork Soil Conservation District 109 North Third Street Lowndes Bank Building Clarksburg, West Virginia 26301 Harrison County Commission Clarksburg, West Virginia 26301
Problems:	Flooding of homes, businesses, roads and bridges. Public water supply for town of Wallace and surrounding areas. Water-oriented recreation. Serious flooding occurred during 1974.

UPPER LITTLE TEN MILE CREEK (continued)

Status:	Project feasible May 1967. Local responsibilities are high. So far, ways and means have not been developed to handle them. Technical on-site assistance was provided in February 1974 in developing a temporary emergency plan for alleviation of flood hazard.

Map No. 47 LEADING CREEK

Location:	Randolph County
Size:	39,170 acres
Application Received:	January 9, 1967
Sponsors:	Tygarts Valley Soil Conservation District Bennett Building Philippi, West Virginia 26416 Randolph County Commission Elkins, West Virginia 26241 City of Elkins Elkins, West Virginia 26241
Problems:	Flooding of homes, businesses, and agricultural land. Water-oriented recreation is a need.
Status:	Project feasible January 1968. The preliminary investigation was updated during the Monongahela River Basin Type IV Study. During 1974, met with local people regarding a flooding problem.

Map No. 48 UPPER MEADOW RIVER

Location:	Greenbrier, Fayette, and Summers Counties
Size:	131,222 acres
Application Received:	March 8, 1967
Sponsors:	Southern Soil Conservation District P. O. Box 785 Skelton, West Virginia 25919 Greenbrier Valley Soil Conservation District 117 Washington Street Lewisburg, West Virginia 24901 Greenbrier County Commission Lewisburg, West Virginia 24901 Summers County Commission Hinton, West Virginia 25951 Fayette County Commission Fayetteville, West Virginia 25840
Problems:	Flooding of several towns, rural communities, roads, bridges, railroads, and good agricultural land. Erosion control and agricultural drainage are needed. Opportunity for water-oriented recreation is excellent.
Status:	Project feasible. Preliminary investigation made February 1967, during the Kanawha River Basin Type II Study. During 1976, met with a member of the State Legislature to discuss channel work on Little Sewell Creek, a tributary of Meadow River. At the request of the State Legislator, provided basic data from the Kanawha Study.

Map No. 52 UPPER BLUESTONE RIVER

Location:	Mercer County, West Virginia, and Tazewell County, Virginia
Size:	47,174 acres
Application Received:	January 26, 1968
Sponsors:	Tazewell Soil and Water Conservation District Tannersville, Virginia 24377 Southern Soil Conservation District P. O. Box 785 Skelton, West Virginia 25919 Tazewell County Board of Supervisors R.F.D. #1 Cedar Bluff, Virginia 24609 Mercer County Commission Princeton, West Virginia 24740 City of Bluefield Bluefield, West Virginia 24701 Town of Bluefield Bluefield, Virginia 24605
Problems:	Floodwater damage to residential and commercial properties and transportation facilities, both within and below watershed, was estimated to total over $261,000 annually in 1966.
Status:	At the request of the Tazewell Soil and Water Conservation District, planning was suspended and application for assistance cancelled. Other sponsors concurred.

Map No. 53 DUNLAP CREEK

Location:	Monroe County, West Virginia and Alleghany County, Virginia
Size:	77,955 acres
Application Received:	July 16, 1968
Sponsors:	Greenbrier Valley Soil Conservation District 117 Washington Street Lewisburg, West Virginia 24901 Monroe County Commission Union, West Virginia 24983 Mountain Soil and Water Conservation District Monterey, Virginia 24465
Problems:	Flooding of 7,150 acres of high quality cropland and pasture, erosion and sedimentation.
Status:	To be planned by Virginia. Project feasible. Preliminary investigation made during the James River Type IV Study.

Map No. 67 NORTH FORK OF HUGHES RIVER

Location:	Ritchie County
Size:	129,250 acres
Application Received:	March 19, 1971
Sponsors:	Little Kanawha Soil Conservation District P. O. Box 173 Elizabeth, West Virginia 26143 Ritchie County Commission Harrisville, West Virginia 26362 Town of Cairo Cairo, West Virginia 26337

NORTH FORK OF HUGHES RIVER (continued)

Sponsors:	Town of Harrisville Harrisville, West Virginia 26362 City of Pennsboro Pennsboro, West Virginia 26415 Town of Ellenboro-Lamberton Ellenboro, West Virginia 26346
Problems:	Flooding damage once or twice a year to agricultural land, residential and commercial properties, oil and gas pumping facilities, and public roads.
Status:	Field Investigation Report was completed, and it indicates that a feasible project could be formulated. The project would consist of land treatment and a main stem multiple-purpose dam providing flood storage, water supply for Cairo, Harrisville, Ellenboro-Lamberton, and North Bend State Park, and a 300-acre lake with basic recreation facilities. Meetings have been held with sponsors and local people. Sponsors are investigating ways to carry out their responsibilities.

Applications Disapproved:

Map No. 22 MIDDLE RUN

Location:	Hancock County
Size:	900 acres
Application Received:	March 16, 1959
Sponsors:	Northern Panhandle Soil Conservation District P. O. Box 574 Moundsville, West Virginia 26041
Problems:	Floodwater damage to urban area of city of Chester.
Status:	Application disapproved April 28, 1959, by State Soil Conservation Committee. No practical or feasible solution to flooding problem.

Map No. 23 BUFFALO CREEK

Location:	Brooke and Ohio Counties, West Virginia, and Washington County, Pennsylvania
Size:	104,000 acres
Application Received:	October 26, 1959
Sponsors:	Northern Panhandle Soil Conservation District P. O. Box 574 Moundsville, West Virginia 26041 Washington County Soil Conservation District Washington, Pennsylvania 15301
Problems:	Floodwater damage to urban areas and critical need for water supply for Bethany College.
Status:	A field review of the watershed made February 8-11, 1960, showed an economically feasible project could not be developed. State Soil Conservation Committee, therefore, disapproved the application March 24, 1960.

PROJECTS IN OPERATIONS

Map No. 3 NEW CREEK - WHITE'S RUN

Location:	Grant and Mineral Counties
Size:	36,208 acres
Application Received:	September 7, 1955
Planning Authorized:	January 30, 1956
Operations Authorized:	March 11, 1957
Sponsors:	Potomac Valley Soil Conservation District P. O. Box 548 Romney, West Virginia 26757 City of Keyser Keyser, West Virginia 26726
Problems:	Floodwater damage to agricultural lands, roads, bridges, schools, urban areas in and adjacent to city of Keyser. Water supply for Keyser.
Land Treatment:	Work Plan calls for 3,670 acres to be treated. Accomplished to date - 4,683 acres.
Structural Measures:	Nine of 12 floodwater-retarding structures have been constructed. This includes site 14, with 960 acre feet of storage for city of Keyser water supply. Supplement to work plan to obtain greater control of watershed runoff is scheduled. An environmental assessment and an archaeological survey of remaining sites will be required.

Map No. 4 SOUTH FORK

Location:	Hardy and Pendleton Counties, West Virginia; and Highland County, Virginia
Size:	184,852 acres

SOUTH FORK (continued)

Application Received:	December 5, 1955
Planning Authorized:	March 1957
Operations Authorized:	January 5, 1959
Sponsors:	Potomac Valley Soil Conservation District P. O. Box 548 Romney, West Virginia 26757
Problems:	In 1960, estimated average annual floodwater damage of $709,514, about one-third to agricultural lands, one-third to roads and bridges, and one-third to urban areas in town of Moorefield. Project will reduce average annual damages by about 62 percent.
Land Treatment:	Land treatment measures are planned for 17,090 acres. To date, 20,570 acres, or 120 percent, have been applied.
Structural Measures:	Twenty-two of 24 dams have been constructed. Sponsors have initiated legal action to secure landrights at one of the two remaining sites. It is hoped that a contract can be awarded in 1977. Work has started on a supplement to the work plan to solve a local flooding problem at south part of Moorefield. Supplement to work plan to obtain greater control of watershed runoff is underway.

Map No. 5 PATTERSON CREEK

Location:	Grant and Mineral Counties
Size:	181,248 acres
Application Received:	January 26, 1956
Planning Authorized:	1961
Operations Authorized:	September 7, 1962

PATTERSON CREEK (continued)

Sponsors:	Potomac Valley Soil Conservation District P. O. Box 548 Romney, West Virginia 26757 Fort Ashby Public Service District Fort Ashby, West Virginia 26719
Problems:	In 1962, estimated total average annual flood damages were $334,282, occurring to agricultural land, 47 state road bridges, 20.6 miles of state roads, 184 houses and cabins, and 22 businesses. Public water supply for Fort Ashby and water-based recreation are needed. Project will reduce annual damages by about 73 percent.
Land Treatment:	Land treatment measures are planned for 35,750 acres. To date, 31,683 acres, or about 89 percent, have been applied.
Structural Measures:	Twenty-seven of 34 dams have been completed. Designs have been completed for three of the remaining seven sites. Site 46 included 184 acre feet of water storage for Fort Ashby. Work Plan was supplemented to update costs, add provisions of the Uniform Relocation Act, and delete site 10. Detailed geologic investigation was completed for site 30.

Map No. 6 LUNICE CREEK

Location:	Grant County
Size:	57,285 acres
Application Received:	April 20, 1960
Planning Authorized:	May 20, 1963
Operations Authorized:	March 4, 1965

LUNICE CREEK (continued)

Sponsors:	Potomac Valley Soil Conservation District P. O. Box 548 Romney, West Virginia 26757 City of Petersburg Petersburg, West Virginia 26847 Grant County Commission Petersburg, West Virginia 26847
Problems:	Floodwater damage primarily to agricultural lands, roads and bridges, residential and business establishments. In 1964, estimated average annual damages were $85,360. Project will reduce damages by about 79 percent.
Land Treatment:	Land treatment measures are planned for 5,750 acres. To date, 9,271 acres, or 161 percent, have been applied.
Structural Measures:	Three of five dams have been constructed. Design work has been completed for one of the remaining sites. Supplement to the work plan was completed June 1973 to include provisions of the Uniform relocation Act, PL 91-646. An environmental assessment and an archaeological survey of remaining sites were completed.

Map No. 7 UPPER BUFFALO CREEK

Location:	Marion County
Size:	45,914 acres
Application Received:	September 15, 1954
Planning Authorized:	January 25, 1955
Operations Authorized:	August 22, 1966

UPPER BUFFALO CREEK (continued)

Sponsors:	Monongahela Soil Conservation District 293 University Avenue Morgantown, West Virginia 26505 City of Mannington Mannington, West Virginia 26582 Marion County Commission Fairmont, West Virginia 26554 West Virginia Department of Natural Resources 1800 Washington Street, East Charleston, West Virginia 25305
Problems:	Floodwater damage to city of Mannington and adjacent areas, inadequate water-based recreation, plus sediment and erosion damage from improper land use. In 1965, estimated average annual damages were $254,140. Project will reduce these damages by about 95 percent.
Land Treatment:	Land treatment measures planned for 6,330 acres. To date, 9,213 acres, or 146 percent, have been applied.
Structural Measures:	Three of the 12 dams have been constructed. Contract for a fourth dam is scheduled to be awarded by July 1977. Designs for three other dams have been completed. Detailed geologic investigation was completed for site 37. Moving site 33 upstream was investigated and found to be suitable. This included the employment of a consultant to check mining operations under the new site.

Map No. 18 BRUSH CREEK

Location:	Mercer County
Size:	22,293 acres
Application Received:	May 15, 1958
Planning Authorized:	April 21, 1959

BRUSH CREEK (continued)

Operations Authorized:	June 21, 1960
Sponsors:	Southern Soil Conservation District P. O. Box 785 Skelton, West Virginia 25919 Brush Creek Watershed Improvement District Princeton, West Virginia 24740 Green Valley-Glenwood Public Service District Princeton, West Virginia 24740 City of Princeton Princeton, West Virginia 24740 State Department of Highways Charleston, West Virginia 25301 City of Bluefield Bluefield, West Virginia 24701 Mercer County Commission Princeton, West Virginia 24740
Problems:	Floodwater damage to agricultural lands, urban and residential areas, future development sites, and roads and bridges. Public water supply for Princeton, Bluefield, and adjacent rural areas, plus water-based recreation were also needed. In 1965, estimated average annual floodwater damages were $91,437. Project will reduce these damages by about 77 percent.
Land Treatment:	Land treatment measures are planned for 4,330 acres. To date, 2,434 acres, or about 56 percent, have been applied.

BRUSH CREEK (continued)

Structural Measures:	The last of 10 dams, the multiple-purpose dam with water supply for city of Bluefield, was completed. This includes four multiple-purpose dams, three for water supply, and one for water-based recreation. Work is progressing on a seventh supplement to the work plan to increase the planned channel modification and complete the structural measures. An archaeological survey for the remaining structural measures has been completed. An environmental impact statement is being prepared for the channel modification.

Map No. 20 HARMON CREEK

Location:	Brooke and Hancock Counties, West Virginia; and Washington County, Pennsylvania
Size:	24,350 acres
Application Received:	June 16, 1958
Planning Authorized:	August 22, 1960
Operations Authorized:	March 26, 1965
Sponsors:	Northern Panhandle Soil Conservation District P. O. Box 574 Moundsville, West Virginia 26041 City of Weirton Weirton, West Virginia 26062 Washington County Commissioners Washington, Pennsylvania 15301 Pennsylvania Fish Commission Harrisburg, Pennsylvania 17108 Smith Township Supervisors Smith Township, Pennsylvania

HARMON CREEK (continued)

Sponsors:	Washington County Soil Conservation District Washington, Pennsylvania 15301
Problems:	Floodwater damage to Weirton, Colliers, and other locations along Harmon Creek. Water supply is needed for Smith Township in Pennsylvania. In 1962, estimated average annual floodwater damages totaled $106,960. Project will reduce these damages by about 91 percent.
Land Treatment:	In West Virginia, 1,642 acres of land treatment measures are planned. To date, 2,143 acres have been applied.
Structural Measures:	Total of 14 dams planned, with six in West Virginia. All six have been built. All are single-purpose floodwater-retarding structures.

Map No. 21 WHEELING CREEK

Location:	Marshall and Ohio Counties, West Virginia; Greene and Washington Counties, Pennsylvania
Size:	191,180 acres
Application Received:	January 26, 1959
Planning Authorized:	April 13, 1964
Operations Authorized:	October 20, 1966
Sponsors:	Northern Panhandle Soil Conservation District P. O. Box 574 Moundsville, West Virginia 26041 City of Wheeling Wheeling, West Virginia 26003 Ohio County Board of Commissioners Wheeling, West Virginia 26003 Marshall County Commission Moundsville, West Virginia 26041

WHEELING CREEK (continued)

Sponsors:	Washington County Board of Commissioners Washington, Pennsylvania 15301 Washington County Soil and Water Conservation District Washington, Pennsylvania 15301 Greene County Board of Commissioners Waynesburg, Pennsylvania 15370 Greene County Soil and Water Conservation District Waynesburg, Pennsylvania 15370 Wheeling Creek Watershed Protection and Flood Prevention Commission Wheeling, West Virginia 26003
Problems:	Principal ones are floodwater damages in the city of Wheeling and suburban areas, and lack of water-based recreation. In 1966, estimated average annual floodwater damages totaled $276,541. Project will reduce these damages by about 98 percent. The completed dam at site 7 kept 163,000,000 gallons of flood runoff from adding to downstream flooding during the flash flood over the 1975 Labor Day weekend.
Land Treatment:	In West Virginia, 10,710 acres of land treatment measures are planned. To date, 29,911 acres, or about 279 percent, have been applied.
Structural Measures:	Total of seven dams planned, with four in West Virginia. One of the four is completed with construction of the other three to be completed in 1977.

Map No. 28 BIG DITCH RUN

Location:	Webster County
Size:	5,730 acres
Application Received:	May 21, 1962
Planning Authorized:	January 14, 1963
Operations Authorized:	September 12, 1963
Sponsors:	Elk Soil Conservation District Sutton, West Virginia 26601 Town of Cowen Cowen, West Virginia 26206 Webster County Commission Webster Springs, West Virginia 26288 West Virginia Department of Natural Resources 1800 Washington Street, East Charleston, West Virginia 25301
Problems:	Floodwater damages to town of Cowen and transportation facilities, plus lack of water-based recreation. In 1963, estimated average annual floodwater damages totaled $25,913. Almost 66 percent occurs to residences and businesses. Project will almost eliminate these damages.
Land Treatment:	Land treatment measures have been planned for 925 acres. To date, 565 acres, or about 61 percent, have been applied.
Structural Measures:	One multiple-purpose dam with recreational facilities, and 19,300 linear feet of channel work planned. Dam and channel including extension have been completed. Work plan was supplemented to extend channel work downstream 1,400 feet, change plan for recreation facilities and change in land treatment needs. Design of recreational facilities by the Department of Natural Resources is complete. An environmental assessment was made and a Negative Declaration published. Contract for basic facilities is expected to be awarded in early 1977.

Map No. 29 ELK TWOMILE CREEK

Location:	Kanawha County
Size:	8,450 acres
Application Received:	November 8, 1962
Planning Authorized:	August 30, 1965
Operations Authorized:	April 1, 1969
Sponsors:	Capitol Soil Conservation District 1422 Federal Building 500 Quarrier Street Charleston, West Virginia 25301 Kanawha County Commission Charleston, West Virginia 25301
Problems:	Floodwater damage to residential and commercial establishments, and roads and bridges. In 1967, estimated average annual floodwater damages totaled 92,469. Project will reduce these damages by an estimated 91 percent.
Land Treatment:	Land treatment measures planned for 515 acres. To date, 412 acres have been applied.
Structural Measures:	Six single-purpose floodwater-retarding dams are planned. Site 12 has been completed with site 13 65 percent constructed. An environmental assessment is being made and an archaeological survey of remaining sites was completed.

Map No. 38 DUNLOUP CREEK

Location:	Fayette and Raleigh Counties
Size:	31,510 acres
Application Received:	April 2, 1965
Planning Authorized:	September 19, 1966
Operations Authorized:	July 22, 1969
Sponsors:	Southern Soil Conservation District P. O. Box 785 Skelton, West Virginia 25919

DUNLOUP CREEK (continued)

Sponsors:	Fayette County Commission Fayetteville, West Virginia 25840
Problems:	Floodwater damage to homes, gardens, and roads; erosion of critical areas; and insufficient stream capacity. In 1968, estimated average annual floodwater damages totaled $99,300. Project will reduce these damages about 77 percent.
Land Treatment:	Land treatment measures planned for 2,396 acres. To date, 1,540 acres, or about 64 percent, have been applied.
Structural Measures:	Two sections of channel work, totaling 18,000 linear feet, are planned. Design for the Glen Jean section has been completed. Work plan was supplemented to meet new design criteria, change land treatment needs, and include provisions of the Uniform Relocation Act PL 91-646. Difficult landrights problems are being resolved due mainly to the efforts of the Fayette County Commission. Meeting was held with all sponsors, State Department of Highways, West Virginia Water Company and Public Service District and agreement reached to put in one contract the channel construction and relocation of roads and utilities, and SDH agreed to administer the contract; and construction is expected to start in early 1977. An environmental impact statement was prepared and an archaeological survey of channel site was completed.

Map No. 41 POND RUN

Location:	Wood County
Size:	4,430 acres
Application Received:	January 11, 1966
Planning Authorized:	September 19, 1966

POND RUN (continued)

Operations Authorized:	May 28, 1970
Sponsors:	Little Kanawha Soil Conservation District P. O. Box 173 Elizabeth, West Virginia 26143 City of Vienna Vienna, West Virginia 26101 City of Parkersburg Parkersburg, West Virginia 26101 Wood County Commission Parkersburg, West Virginia 26101
Problems:	Floodwater and sediment damage to homes, gardens, roads, bridges, and public utilities; erosion of streambanks and future urban areas; and insufficient channel capacity. In 1968, estimated average annual floodwater damages totaled $219,000. Project will reduce these damages by about 95 percent.
Land Treatment:	Land treatment measures planned for 1,185 acres. To date, only 116 acres or about 10 percent, have been applied.
Structural Measures:	One single-purpose floodwater-retarding dam and 15,270 linear feet of channel work, with one drop structure, are planned. Landrights for the dam site have been secured. The State Soil Conservation Committee provided financial assistance to the city of Vienna to help pay for the landrights. A contract for construction of the dam is expected to be awarded in January 1977. An environmental assessment for the dam site was made and a Negative Declaration filed. A consultant is being hired to prepare an environmental impact statement for the channel work.

Map No. 44 MILL CREEK

Location:	Jackson and Roane Counties
Size:	123,250 acres
Application Received:	June 28, 1966
Planning Authorized:	December 18, 1967
Operations Authorized:	June 29, 1971
Sponsors:	Western Soil Conservation District P. O. Box 234 Point Pleasant, West Virginia 25550 Little Kanawha Soil Conservation District P. O. Box 173 Elizabeth, West Virginia 26143 Jackson County Commission Ripley, West Virginia 25271 City of Ripley Ripley, West Virginia 25271 West Virginia Department of Natural Resources 1800 Washington Street, East Charleston, West Virginia 25305
Problems:	Frequent flooding and sediment damage to agricultural lands and improvements, residences, businesses, roads, gardens, bridges, and utilities; lack of water-based recreation; inadequate water supply for city of Ripley; and declining fisheries. In 1970, estimated average annual floodwater damages totaled $175,700. Project will reduce these by about 96 percent.
Land Treatment:	Land treatment measures planned for 10,115 acres - 2,550 acres to open land and 7,565 acres to woodland. To date, 9,465 acres applied or about 94 percent.

MILL CREEK (continued)

Structural Measures:	Five single-purpose floodwater-retarding dams, one multiple-purpose dam for recreation and flood prevention, and one multiple-purpose dam for recreation, municipal water supply, and flood prevention, are planned. Detail geologic investigation has been completed for all sites. Construction of dam at site 4 was completed. Contract for site 5 is expected to be awarded in January 1977. A supplement to the work plan is being prepared to delete recreation as a purpose at site 13 and the Jackson County Commission and W.Va. Dept. of Natural Resources exchange responsibility for sites 10 and 13.

Map No. 45 SOUTH BRANCH

Location:	Grant and Pendleton Counties, West Virginia; and Highland County, Virginia
Size:	187,300 acres
Application Received:	January 25, 1967
Planning Authorized:	May 19, 1967
Operations Authorized:	March 30, 1971
Sponsors:	Potomac Valley Soil Conservation District P. O. Box 548 Romney, West Virginia 26757 Mountain Soil and Water Conservation District Monterey, Virginia 24465 Pendleton County Commission Franklin, West Virginia 26807
Problems:	Frequent flooding and sediment damage to agricultural lands and improvements, businesses, residences, camps, roads, bridges, and utilities; water-based recreation is also a need. In

SOUTH BRANCH (continued)

Problems:	1970, estimated average annual floodwater damages totaled $550,600. Project will reduce these damages by about 51 percent.
Land Treatment:	Land treatment measures planned for 15,070 acres - 12,230 acres to open land and 2,840 acres to woodland. To date, 11,023 acres applied or about 73 percent.
Structural Measures:	Seven single-purpose floodwater-retarding dams and one multiple-purpose dam for recreation and flood prevention. Design has been completed for one site, one is being designed and the geologic investigation underway for the multiple-purpose site. An archaeological survey of all sites was completed. Sponsors have purchased farm with site 17.

Map No. 46 MATE CREEK

Location:	Mingo County
Size:	10,480 acres
Application Received:	March 3, 1967
Planning Authorized:	April 10, 1967
Operations Authorized:	March 16, 1972
Sponsors:	Guyan Soil Conservation District P. O. Box 27 Huntington, West Virginia 25706 Mingo County Commission Williamson, West Virginia 25661 City of Matewan Matewan, West Virginia 25678
Land Treatment:	Accelerated land treatment measures are planned for 276 acres of critically eroding areas and 51 acres of forest land. Very little progress has been made.

MATE CREEK (continued)

Structural Measures:	Four floodwater-retarding dams, one of which is multiple-purpose, including water-based recreation. Also planned is 22,000 linear feet of stream modification. Geologic investigation was completed for all sites. A consultant was employed to determine if any of the sites were over mineable coal seams. The work plan will be supplemented to include water supply in one of the structures. An environmental impact statement will be preapred. An archaeological survey of all sites was completed.

Map No. 49 PRICKETT CREEK

Location:	Marion and Taylor Counties
Size:	15,580 acres
Application Received:	June 19, 1967
Planning Authorized:	February 24, 1969
Operations Authorized:	November 5, 1973
Sponsors:	Monongahela Soil Conservation District 293 University Avenue Morgantown, West Virginia 26505 Tygarts Valley Soil Conservation District Bennett Building Philippi, West Virginia 26416 Marion County Commission Fairmont, West Virginia 26554
Problems:	Flooding and sediment damage to residences, businesses, roads, bridges, lawns, gardens, utilities, and agricultural lands. There is a need for flood-free areas for future homes and industrial sites.

PRICKETT CREEK (continued)

Land Treatment:	Accelerated land treatment is planned for 5,658 acres. To date, 2,046 acres, or 36 percent, have been applied.
Structural Measures:	Consists of one floodwater-retarding structure including minimum facilities for public fishing, about 5,070 feet of levee, 600 feet concrete floodwall, and about 1,360 feet of channel work. Detail geologic investigation was completed for the dam site.

Map No. 50 LOST RIVER

Location:	Hardy County
Size:	117,200 acres
Application Received:	April 16, 1968
Planning Authorized:	April 19, 1968
Operations Authorized:	February 11, 1975
Sponsors:	Potomac Valley Soil Conservation District P. O. Box 548 Romney, West Virginia 26757 Hardy County Commission Moorefield, West Virginia 26836
Problems:	Frequent flooding and sediment damage to rural owners of 342 properties including cropland, pasture, dwellings, fences, roads, bridges, utilities, and businesses. A total of 1,990 acres is subject to the 100-year frequency flood. Lack of water-based recreational opportunities and a good year-round fishery.
Land Treatment:	Land treatment is planned for 94,750 acres of watershed land. This includes 1,400 acres of cropland, 7,000 acres of grassland, 86,300 acres of woodland, 25 acres of miscellaneous land, and 25 acres of critical area stabilization.

LOST RIVER (continued)

Structural Measures:	Structural measures planned consist of four single-purpose floodwater-retarding dams and one multiple-purpose dam providing a 50-acre recreation lake. Detail geologic investigation was completed for three sites. Considerable opposition has developed against the displacement of people by the dams. Sponsors are attempting to resolve this problem.

Map No. 55 NORTH AND SOUTH MILL CREEK

Location:	Grant and Pendleton Counties
Size:	66,600 acres
Application Received:	November 25, 1968
Planning Authorized:	March 3, 1969
Operations Authorized:	January 15, 1976
Sponsors:	Potomac Valley Soil Conservation District P. O. Box 548 Romney, West Virginia 26757 Grant County Commission Petersburg, West Virginia 26847
Problems:	Flooding damage to agricultural lands, roads and bridges, residences and utilities. Severe erosion is occurring on an estimated 100 acres of pasture land. There is a lack of water-based lake-type recreation facilities.
Land Treatment:	Land treatment is planned for the entire 66,600 acres. The going program will treat 38,670 acres and the accelerated program 27,930 acres. The accelerated program involves 1,000 acres of cropland, 4,800 acres of grassland, 21,800 acres of woodland, 300 acres of miscellaneous land, and 30 acres of critical area roadbank stabilization.

NORTH AND SOUTH MILL CREEK (continued)

Structural Measures:	Structural measures include five single-purpose floodwater-retarding dams, one multiple-purpose floodwater-retarding and recreation dam, and recreation facilities. Contracts for two single-purpose dams were awarded in November 1976. Detail geologic investigation was started for site 2.

PROJECTS COMPLETED

Map No. 1 SALEM FORK OF TENMILE CREEK (Pilot)

Location:	Harrison County
Size:	5,325 acres
Application Received:	October 1, 1953
Planning Authorized:	November 3, 1953
Operations Authorized:	September 29, 1954
Project Completed:	June 30, 1959
Sponsors:	West Fork Soil Conservation District 109 North Third Street Lowndes Bank Building Clarksburg, West Virginia 26301 Upper Tenmile Watershed Association Salem, West Virginia 26426
Problems:	Floodwater and sediment damage to Salem, East Salem, Bristol, and agricultural lands and improvements.
Land Treatment:	Total of 2,778 acres of land treatment measures applied.
Structural Measures:	Seven single-purpose floodwater-retarding dams, one multiple-purpose dam for water supply for Salem and flood prevention, and 10,500 linear feet of channel improvement installed.

Map No. 2 WARM SPRINGS RUN

Location:	Morgan County
Size:	7,264 acres
Application Received:	March 1953
Planning Authorized:	March 1953
Operations Authorized:	April 19, 1955

WARM SPRINGS RUN (continued)

Project Completed:	June 30, 1962
Sponsors:	Eastern Panhandle Soil Conservation District P. O. Box 1090 Martinsburg, West Virginia 25401 Town of Berkeley Springs Berkeley Springs, West Virginia 25411
Problems:	Floodwater damage to agricultural lands and improvements, roads, and urban areas in and adjacent to Berkeley Springs, West Virginia.
Land Treatment:	Total of 2,198 acres of land treatment measures applied.
Structural Measures:	Eight single-purpose floodwater-retarding dams constructed.

Map No. 8 UPPER GRAVE CREEK

Location:	Marshall County, West Virginia; and Greene County, Pennsylvania
Size:	4,920 acres
Application Received:	November 10, 1954
Planning Authorized:	January 25, 1955
Operations Authorized:	June 21, 1956
Project Completed:	December 31, 1964
Sponsors:	Northern Panhandle Soil Conservation District P. O. Box 574 Moundsville, West Virginia 26041 City of Cameron Cameron, West Virginia 26033

UPPER GRAVE CREEK (continued)

Problems:	Floodwater and sediment damage to urban areas in the city of Cameron and vicinity, and inadequate water supply for Cameron.
Land Treatment:	Only about 11 percent, or 500 acres of the planned land treatment measures, were applied.
Structural Measures:	Six single-purpose floodwater-retarding dams, one multiple-purpose dam for water supply for Cameron and flood prevention, and 3.6 miles of channel work were installed.

Map No. 10 DAVE'S FORK - CHRISTIAN'S FORK

Location:	Mercer County
Size:	4,154 acres
Application Received:	June 19, 1956
Planning Authorized:	July 16, 1956
Operations Authorized:	July 22, 1957
Project Completed:	June 30, 1962
Sponsors:	Southern Soil Conservation District P. O. Box 785 Skelton, West Virginia 25919 Mercer County Commission Princeton, West Virginia 24740
Problems:	Floodwater and sediment damage to a rapidly growing urban area adjacent to Princeton, West Virginia.
Land Treatment:	Total of 960 acres of land treatment measures were applied. This exceeded the planned total by about 26 percent.
Structural Measures:	Three single-purpose floodwater-retarding dams and 1.2 miles of channel work were installed.

Map No. 13 SALTLICK CREEK

Location:	Braxton County
Size:	31,683 acres
Application Received:	January 29, 1957
Planning Authorized:	April 25, 1960
Operations Authorized:	September 8, 1962
Project Completed:	June 30, 1968
Sponsors:	Elk Soil Conservation District Sutton, West Virginia 26601 Braxton County Commission Sutton, West Virginia 26601
Problems:	Floodwater and sediment damage to agricultural lands, urban areas, roads, and about 9 miles of railroad property.
Land Treatment:	Total of 3,310 acres of land treatment measures were applied. This represents about 86 percent of total planned.
Structural Measures:	Five single-purpose floodwater-retarding dams have been constructed.

Map No. 16 MARLIN RUN

Location:	Pocahontas County
Size:	1,035 acres
Application Received:	June 11, 1957
Planning Authorized:	June 6, 1958
Operations Authorized:	July 14, 1958
Project Completed:	December 31, 1963

MARLIN RUN (continued)

Sponsors:	Greenbrier Valley Soil Conservation District 117 Washington Street Lewisburg, West Virginia 24901
Problems:	Floodwater and sediment damage to residential area of Marlinton, West Virginia.
Land Treatment:	Total of 254 acres of land treatment measures were applied.
Structural Measures:	One single-purpose floodwater-retarding dam has been constructed.

Map No. 17 BOND'S CREEK

Location:	Ritchie County
Size:	9,435 acres
Application Received:	September 12, 1957
Planning Authorized:	June 2, 1959
Operations Authorized:	April 25, 1960
Project Completed:	June 30, 1966
Sponsors:	Little Kanawha Soil Conservation District P. O. Box 173 Elizabeth, West Virginia 26143 City of Pennsboro Pennsboro, West Virginia 26415
Problems:	Floodwater and sediment damage to agricultural lands and improvements.
Land Treatment:	Only about 20 percent, or 420 acres, out of the 2,080 acres of land treatment measures were applied.

BOND'S CREEK (continued)

Structural Measures:	One multiple-purpose dam for fish and wildlife and flood prevention and 5.7 miles of channel work have been installed.

Map No. 19 POLK CREEK

Location:	Lewis County
Size:	7,280 acres
Application Received:	May 21, 1958
Planning Authorized:	September 11, 1959
Operations Authorized:	July 31, 1961
Project Completed:	June 30, 1968
Sponsors:	West Fork Soil Conservation District 109 North Third Street Lowndes Bank Building Clarksburg, West Virginia 26301 Lewis County Commission Weston, West Virginia 26452
Problems:	Floodwater and sediment damage to agricultural lands, and to parts of the city of Weston and suburban areas.
Land Treatment:	Over 2,000 acres of land treatment measures were applied. This was about double the amount planned.
Structural Measures:	Eight single-purpose floodwater-retarding dams were constructed.

Map No. 24 UPPER DECKER'S CREEK

Location:	Preston and Monongalia Counties
Size:	19,940 acres
Application Received:	September 27, 1960

UPPER DECKER'S CREEK (continued)

Planning Authorized:	May 21, 1962
Operations Authorized:	July 17, 1963
Project Completed:	December 31, 1975
Sponsors:	Monongahela Soil Conservation District 293 University Avenue Morgantown, West Virginia 26505 West Virginia Department of Natural Resources 1800 Washington Street, East Charleston, West Virginia 25305
Problems:	Floodwater damages to 1,129 acres of flood plain, including 85 percent rural and agricultural, and 15 percent urban and miscellaneous. In 1963, estimated average annual floodwater damages totaled $36,022. Project will reduce these damages by an estimated 97 percent.
Land Treatment	All planned land treatment measures (4,610 acres) were applied.
Structural Measures:	Total of seven dams and 35,300 linear feet of channel were planned. All have been constructed. Project was completed December 31, 1975.

Map No. 25 PECKS RUN

Location:	Barbour and Upshur Counties
Size:	8,210 acres
Application Received:	June 28, 1961
Planning Authorized:	November 19, 1962
Operations Authorized:	July 17, 1963
Project Completed:	June 30, 1968

PECKS RUN (continued)

Sponsors:	Tygarts Valley Soil Conservation District Bennett Building Philippi, West Virginia 26416 Upshur County Commission Buckhannon, West Virginia 26201
Problems:	Floodwater and sediment damage to 304 acres of flood plain, including crop and pasture land, residences, and businesses.
Land Treatment:	About 1,835 acres of land treatment measures were applied. Overall, this represented 129 percent of the amount planned.
Structural Measures:	Total improved channel constructed totaled 5.1 miles.

Map No. 27 BLAKES CREEK-ARMOUR CREEK

Location:	Kanawha and Putnam Counties
Size:	3,680 acres
Application Received:	January 15, 1962
Planning Authorized:	November 19, 1962
Operations Authorized:	March 7, 1966
Project Completed:	December 31, 1975
Sponsors:	Capitol Soil Conservation District 1422 Federal Building 500 Quarrier Street Charleston, West Virginia 25301 City of Nitro Nitro, West Virginia 25143 Kanawha County Commission Charleston, West Virginia 25301

SOIL CONSERVATION SERVICE